

In the Specification:

Page 1, after the title, insert the following headings and paragraph:

-- RELATED APPLICATIONS

This is a U.S. national stage of International application No. PCT/DE02/04346 filed 27 November, 2002.

This patent application claims priority of German patent application no. 10164016.1 filed 28 December 2001, the subject matter of which is hereby incorporated by reference.

FIELD OF THE INVENTION --

Page 1, please revise the paragraph beginning at line 7 as follows:

The invention relates to an organic light emitting diode (OLED for short) with at least one polymer layer ~~in accordance with the preamble of patent claim 1.~~

Page 1, before line 11, please insert the following heading:

-- BACKGROUND OF THE INVENTION --

Page 2, please revise the paragraph beginning at line 27 as follows:

Depending on the layer thickness and refractive index of the individual layers, wave-guiding effects, indicated by the lines I, II and III in Figure 1, may occur in the organic layer, in the transparent electrode and in the substrate, respectively. Since the layer thicknesses of the organic layers and of the transparent electrode are in the region of the light wavelength or less than that, discrete optical modes I, II, corresponding respectively to lines I, II mentioned above, form in these layers, as a single stationary optical wave with a distinct wavelength. A

continuum of modes ~~while a mode continuum~~ III, corresponding to line III mentioned above, is present in the substrate as a plurality of optical waves with different wavelengths, and traditional geometric optics can be used here to calculate and predict the behavior of the continuum of modes. Therefore, a distinction is made between layer modes and substrate modes.

Page 5, before line 28, please insert the following heading:

-- SUMMARY OF THE INVENTION --

Page 5, please revise the paragraph beginning at line 28 as follows:

~~The invention is based on the object of overcoming the disadvantages of the prior art.~~
~~In particular, the intention~~ One object of the present invention is to provide an organic active OLED layer and a method for producing it in which particular precautions are taken to minimize the wave-guiding effect without the service life of the layer being severely shortened as a result of the use of organic materials ~~or a high degree of wavelength selectivity of the extraction occurring as a result of periodic structures.~~

Page 6, please replace the paragraph beginning at line 1 with the following:

--This and other objects are attained in accordance with one aspect of the present invention directed to an organic light emitting diode (OLED) with at least one organic layer which has refractive index inhomogeneities, wherein the organic layer has at least one first partial region

and at least one second partial region which comprise organic material and have different refractive indices, and the partial regions form a layer with a composite-like structure.

Another aspect of the present invention is directed to a method for producing an organic light emitting diode (OLED) with at least one organic layer which has refractive index inhomogeneities wherein the material of the organic layer is applied to a carrier in such a way that, during or after the coating step, at least one first partial region and at least one second partial region form in the layer. The partial regions have different refractive indices, and the partial regions form a layer with a composite-like structure.--

Page 6, please revise the paragraph beginning at line 7 as follows:

According to an aspect of the invention, inhomogeneities are introduced in at least one organic layer of the OLED, said inhomogeneities themselves having an organic composition. The organic inhomogeneities have a different refractive index than a layer matrix and consequently disturb the wave-guiding effects.

Page 8, delete the paragraph beginning at line 15 in its entirety.

Page 8, replace the heading at line 19 with a new heading as follows:

-- BRIEF DESCRIPTION OF THE DRAWINGS --

Page 8, please revise the paragraphs beginning at lines 32 and 35 as follows:

Figure 3A shows a micrograph of an organic layer in accordance with a first exemplary embodiment of the invention,

Figure 3B shows a micrograph of an organic layer in accordance with a second exemplary embodiment of the invention,

Page 9, before line 1, please insert the following heading"

-- DETAILED DESCRIPTION OF THE DRAWINGS--

Page 9, please revise the paragraph at line 32 as follows:

In both the micrographs, the light areas are composed of PVK and the dark areas are composed of [PVV] PPV.

Page 10, after the last paragraph, please insert the following paragraph:

--The scope of protection of the invention is not limited to the examples given hereinabove. The invention is embodied in each novel characteristic and each combination of characteristics, which includes every combination of any features which are stated in the claims, even if this combination of features is not explicitly stated in the claim.--